

FIG. 1

NETWORK MANAGEMENT DEVICE 20

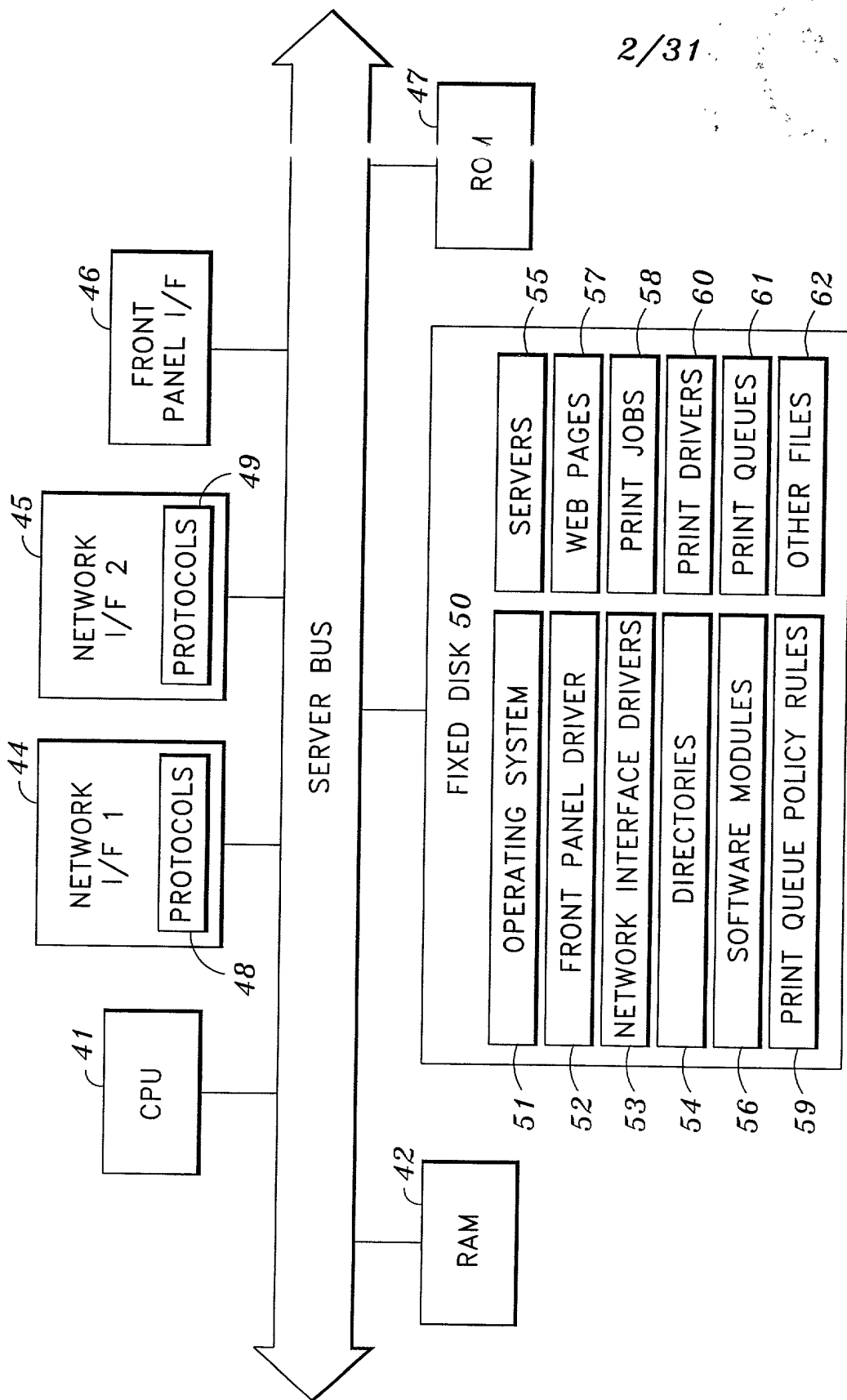


FIG. 2

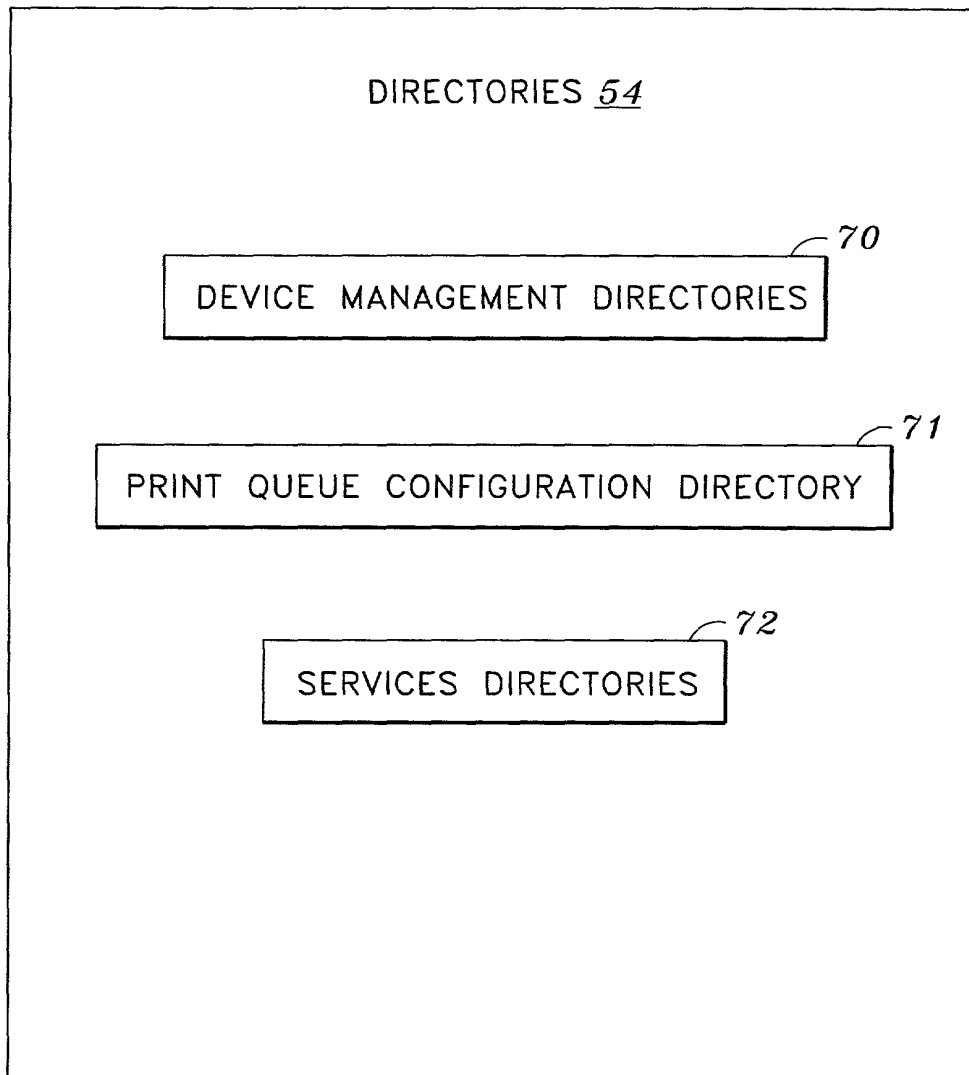


FIG. 3

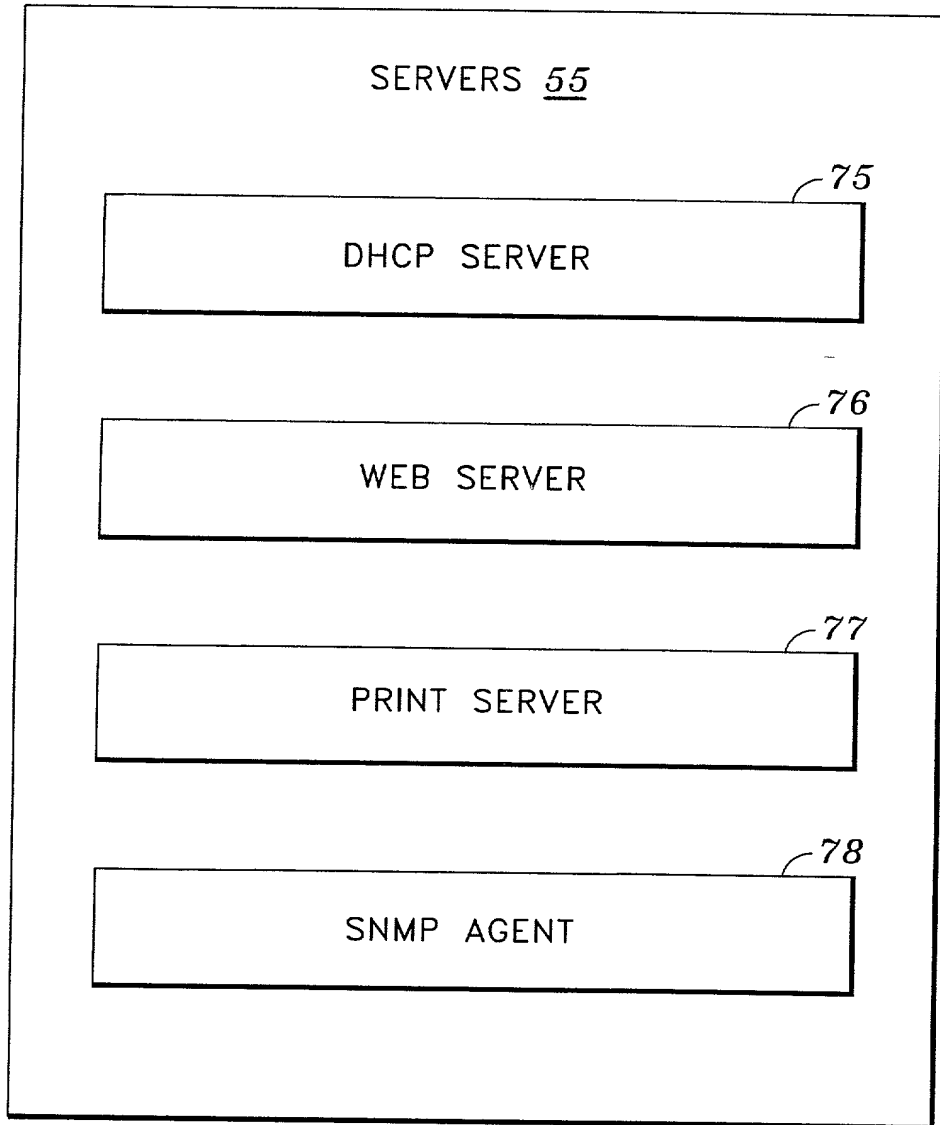


FIG. 4

090501-014000

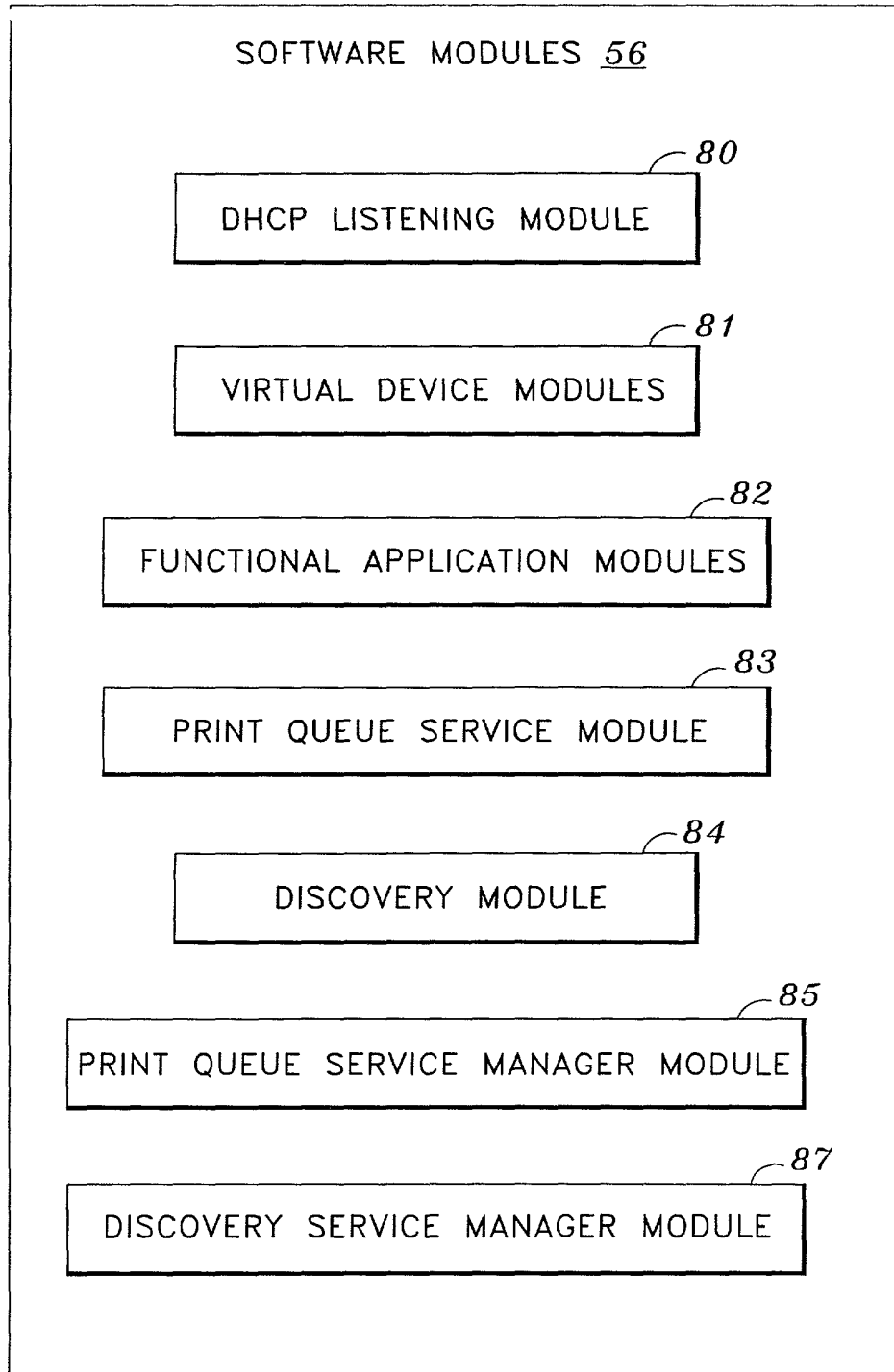


FIG. 5

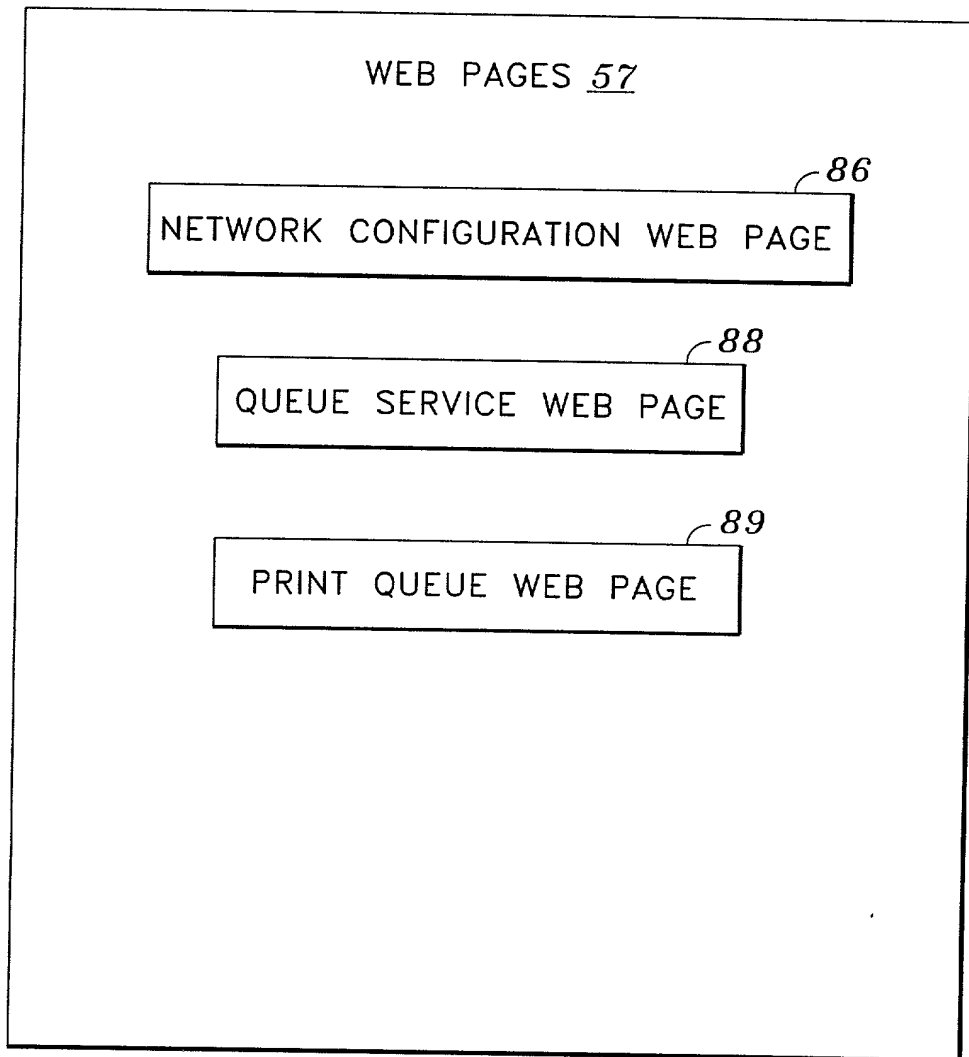


FIG. 6

09895031-014438

DEVICE MANAGEMENT DIRECTORY 70

| ENTRY 90 | MAC ADDRESS 91 | PRINT DEVICE TYPE 92 | IP ADDRESS 93 | NETWORK CONFIGURATION INFORMATION 94 |
|-------------|-------------------|-------------------------|------------------|---|
| Entry 1 | 00:00:85:69:0A:B3 | Canon Laser | 129.65.220.8 | Domain Name, e c. |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- |
| Entry N | -- | -- | -- | -- |

FIG. 7

PRINT QUEUE CONFIGURATION DIRECTORY 71

| | IP ADDRESS 100 | MAC ADDRESS 101 | PRINT QUEUE NAME 102 | PRINTING CAPABILITIES 103 | SERVE 105 |
|---------|-------------------|--------------------|-------------------------|---------------------------------|--------------|
| Entry 1 | 129.65.220.8 | 00:00:85:69:0A:B3 | Canon Laser | Color, Letter, A4 | Main / |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- |
| ENTRY N | -- | -- | -- | -- | -- |

FIG.8

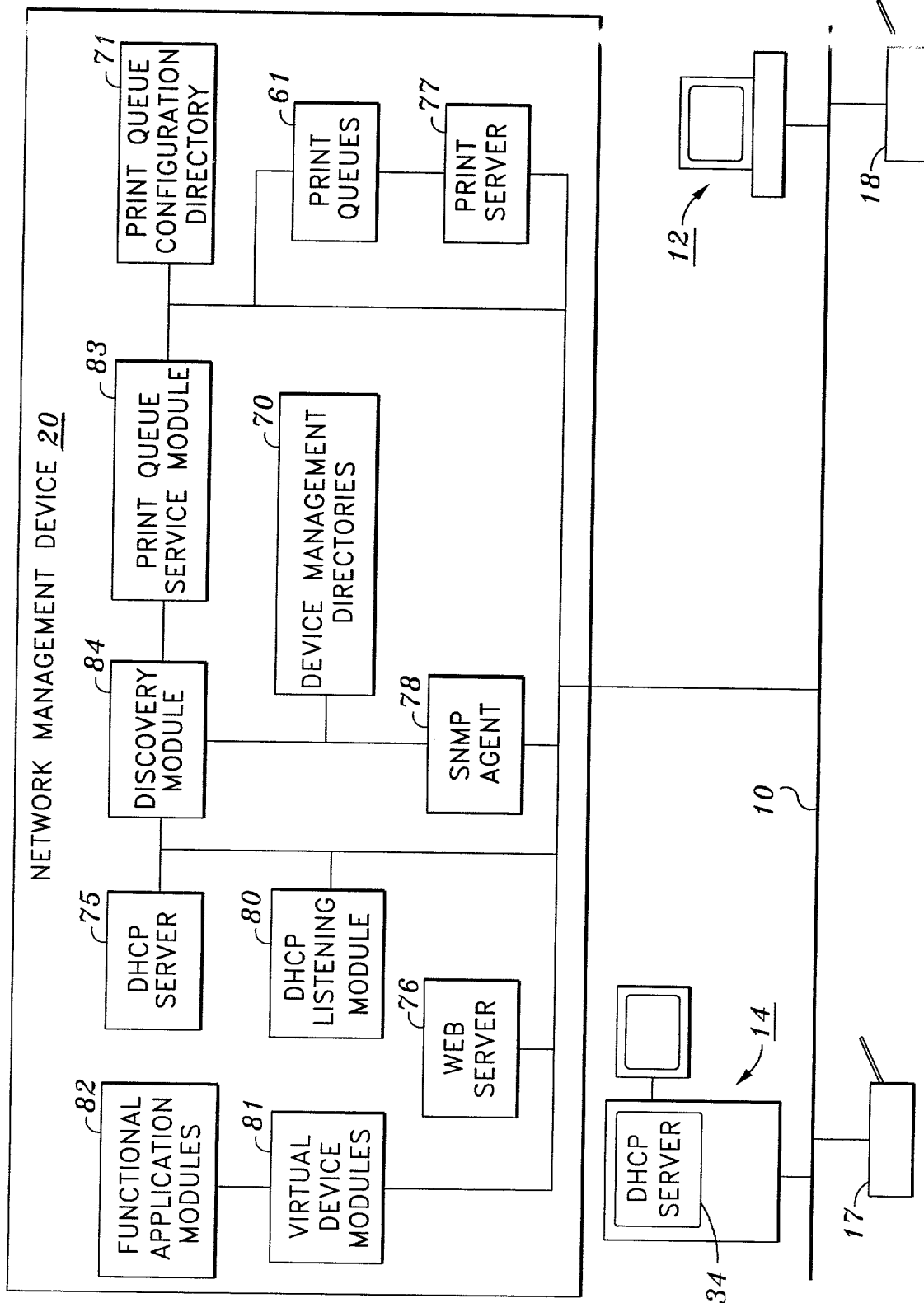


FIG. 9

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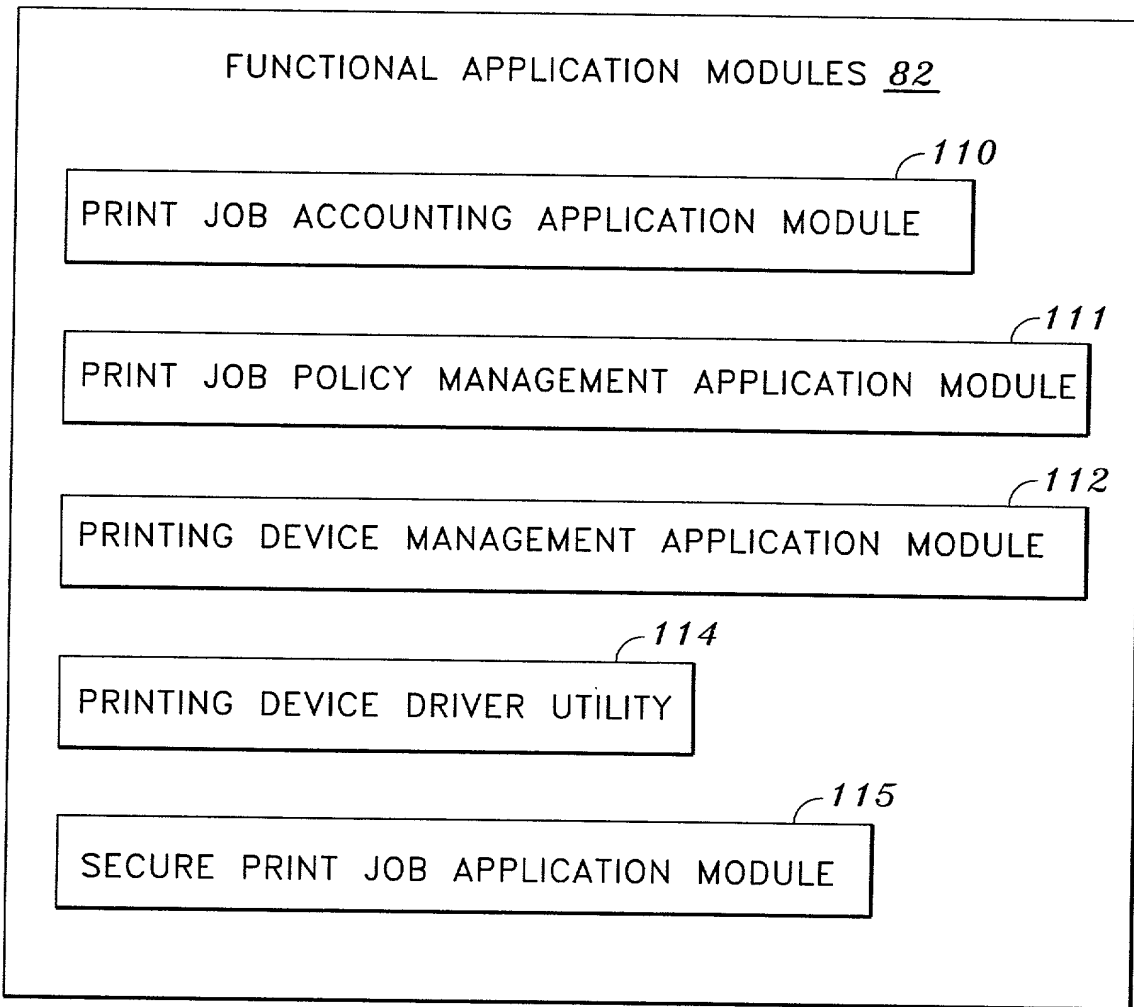


FIG. 10

09534-3443

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SERVICES DIRECTORIES 72

| LOCAL SERVICES DIRECTORY | | |
|--------------------------|------------------------|-----------------------|
| SUBNET ID ¹²² | SERVICE ¹²⁴ | NMD ID ¹²⁵ |
| 1 | DISCOVERY | NMD 1 |
| 1 | PRINT QUEUE | NMD 2 |

| GLOBAL SERVICES DIRECTORY | | |
|---------------------------|------------------------|-----------------------|
| SUBNET ID ¹²² | SERVICE ¹²⁴ | NMD ID ¹²⁵ |
| 1 | PRINT QUEUE | NMD 1 |
| 1 | DISCOV. SERV. MGR. | NMD 3 |
| 1 | GLOBAL INFO SERV. | NMD 1 |

FIG. II

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| GLOBAL SERVICES DIRECTORY <u>121</u> | | |
|--------------------------------------|------------------------|-----------------------|
| SUBNET ID ¹²² | SERVICE ¹²⁴ | NMD ID ¹²⁵ |
| 1 | MASTER | NMD 1 |
| 1 | DISC. SERV. MGR. | NMD 3 |
| 1 | GLOBAL INFO SERV. | NMD 1 |
| 1 | PRINT QU. SERV. MGR. | NMD 3 |
| . | | |
| . | | |
| . | | |
| . | | |

FIG. 12

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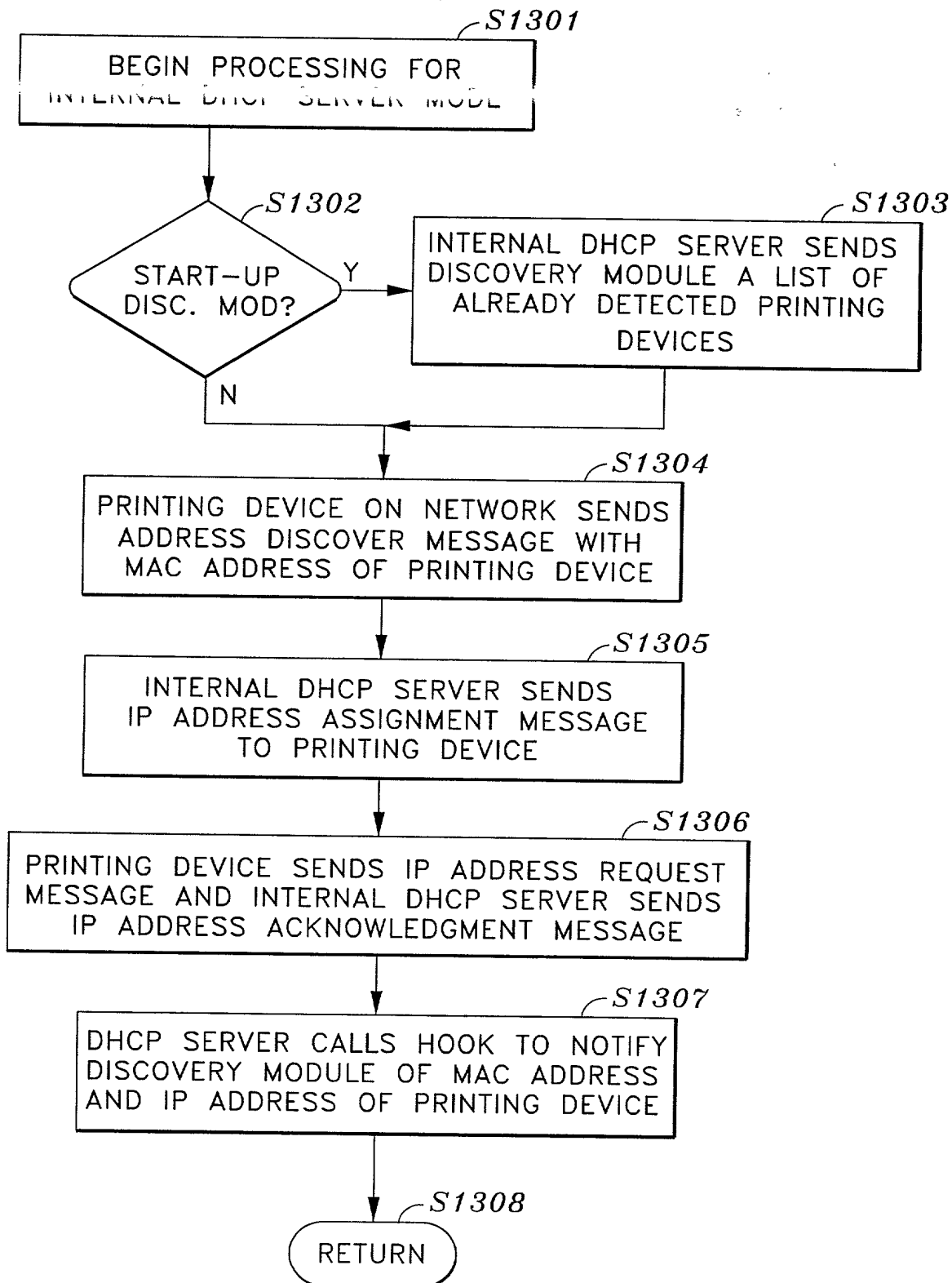


FIG. 13A

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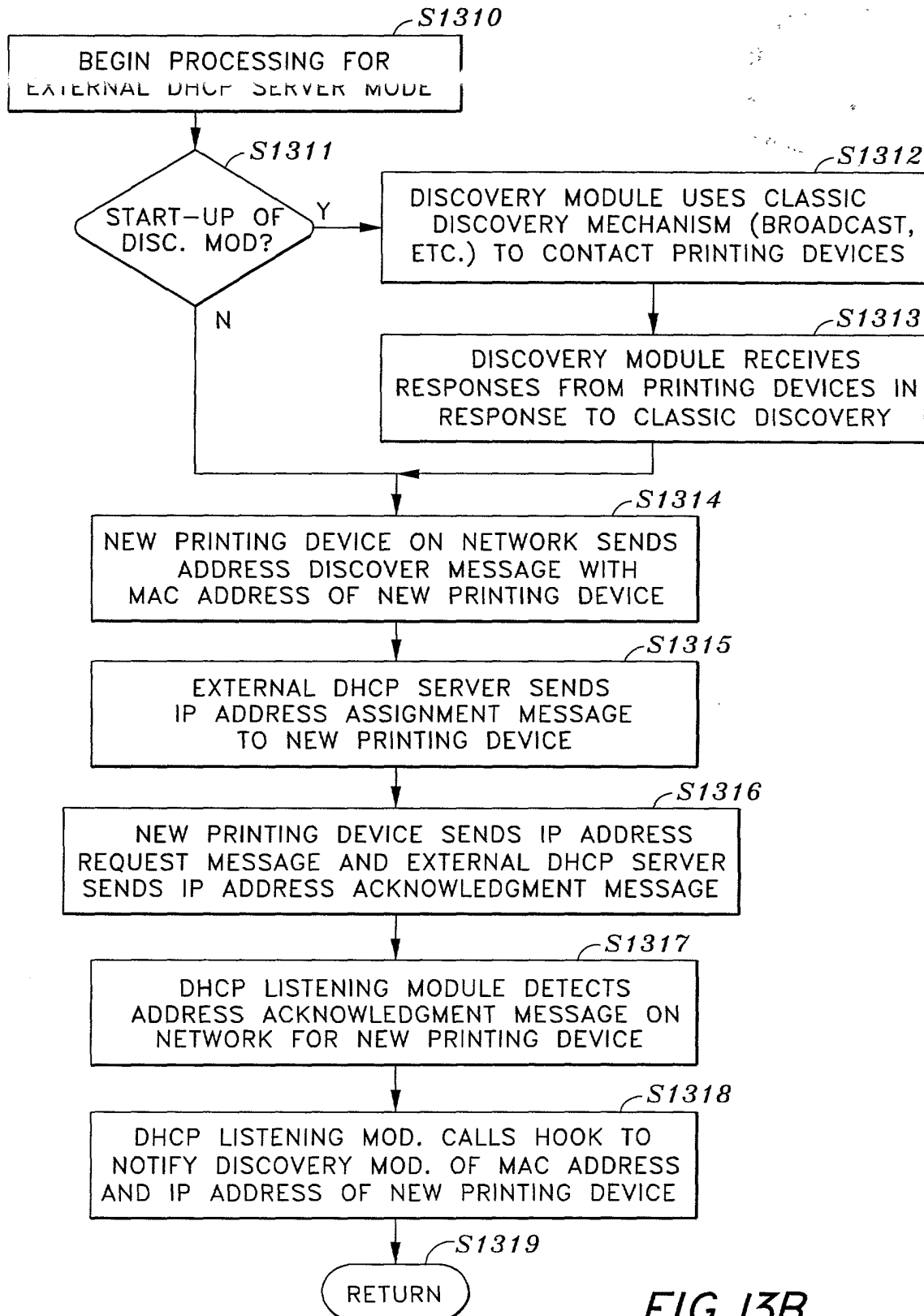
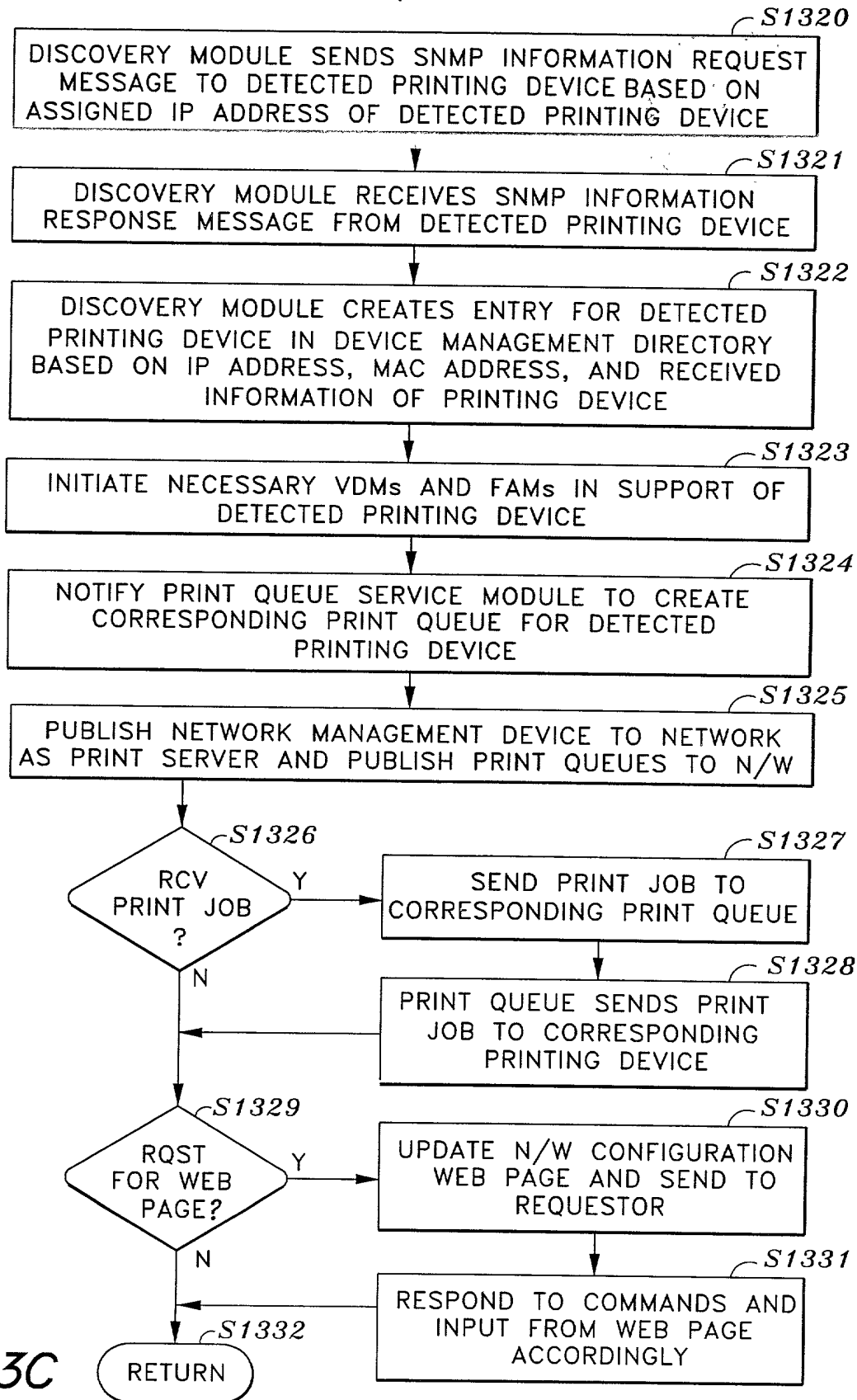


FIG.13B



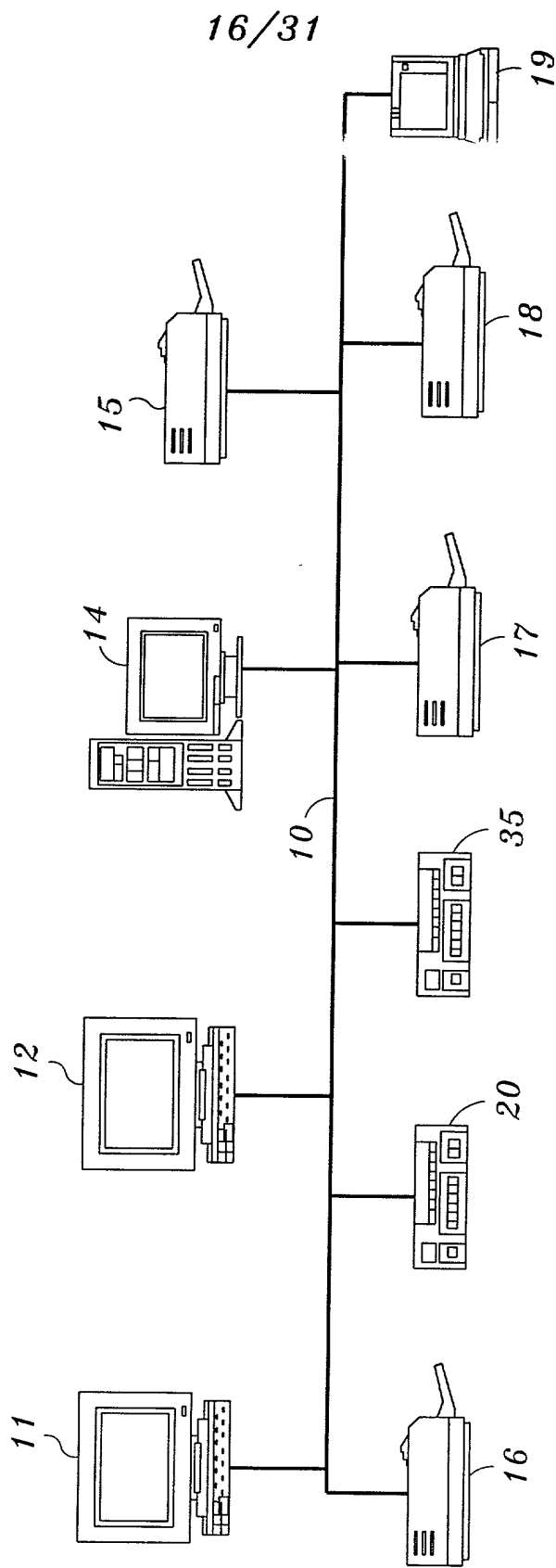


FIG. 14

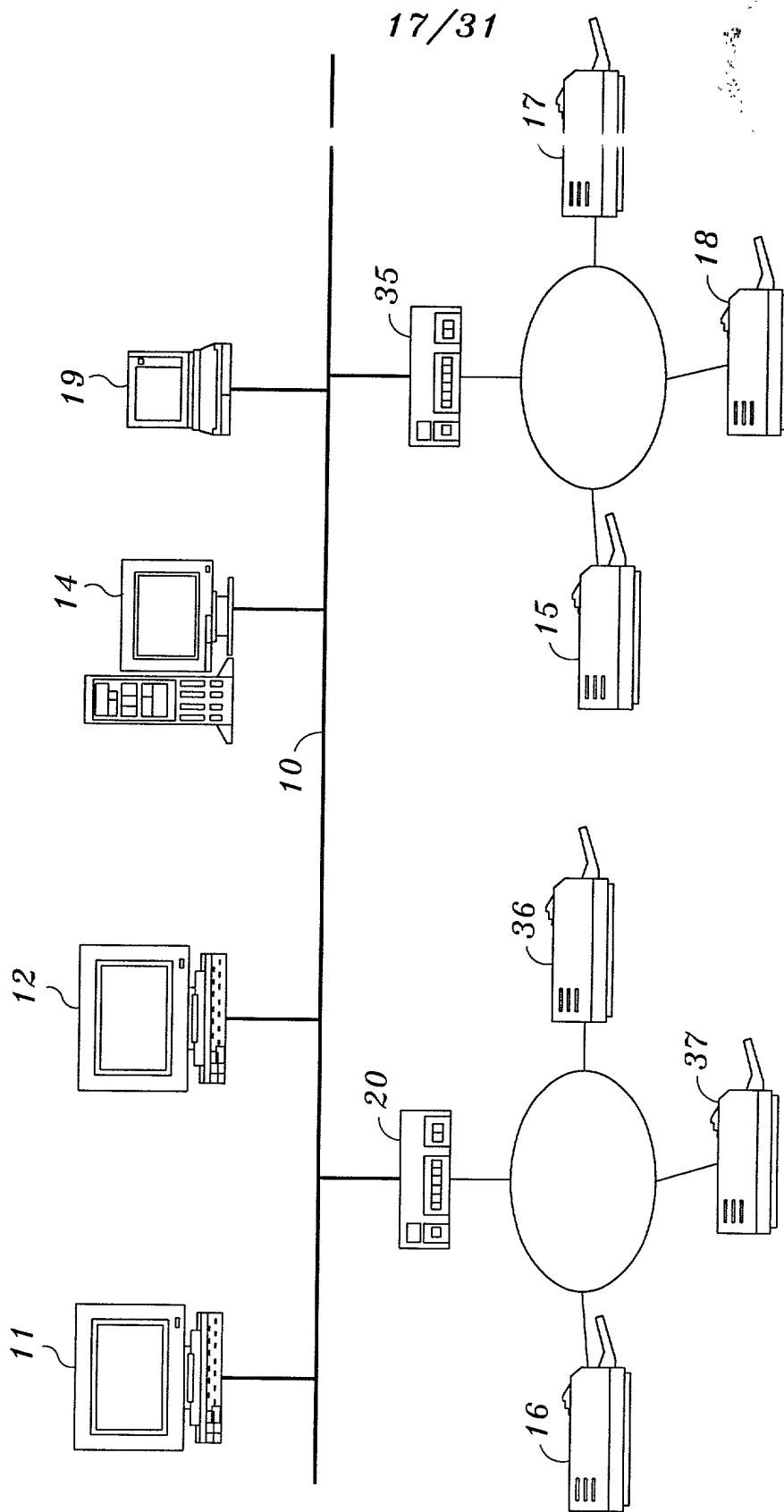


FIG. 15

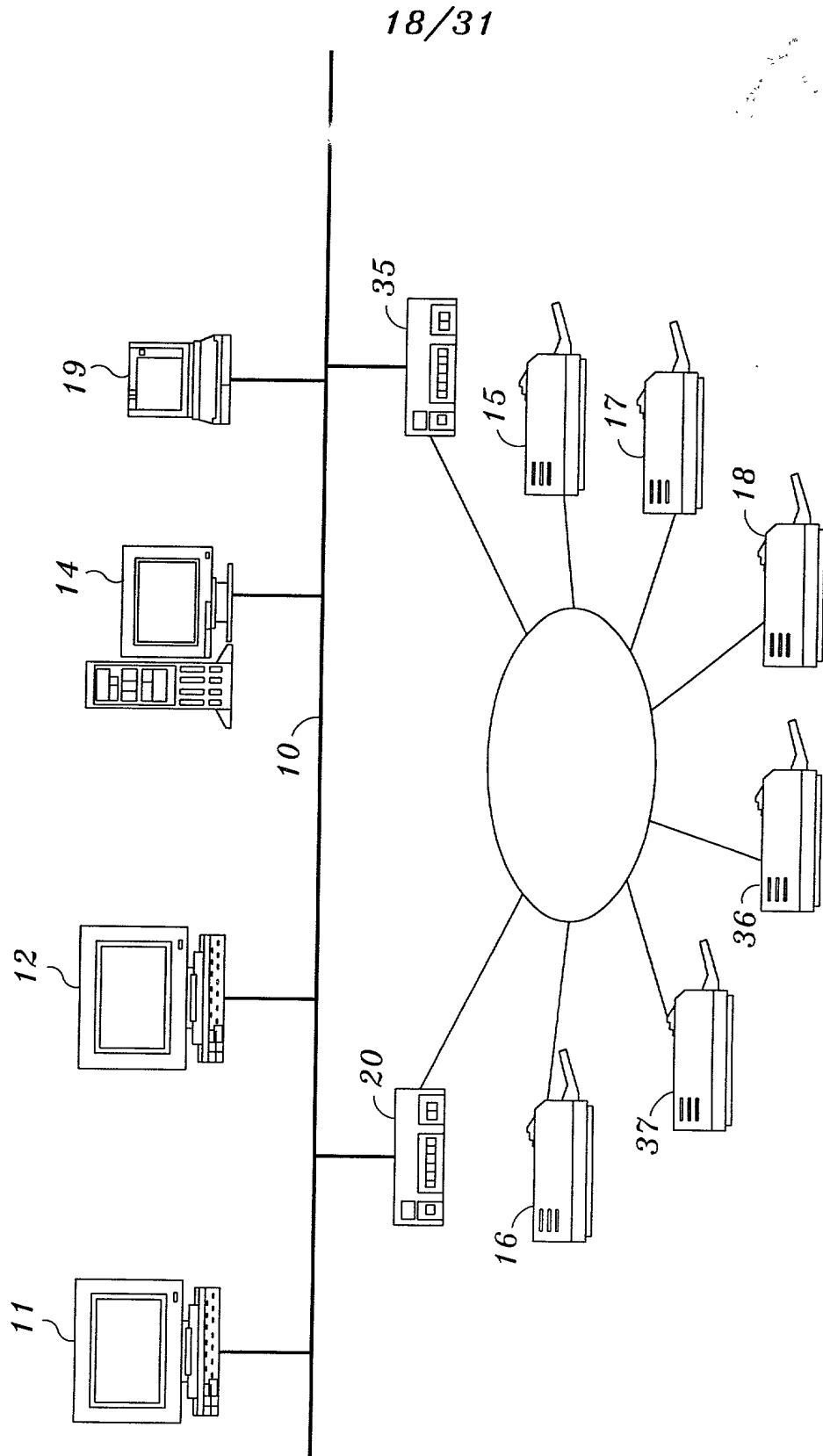


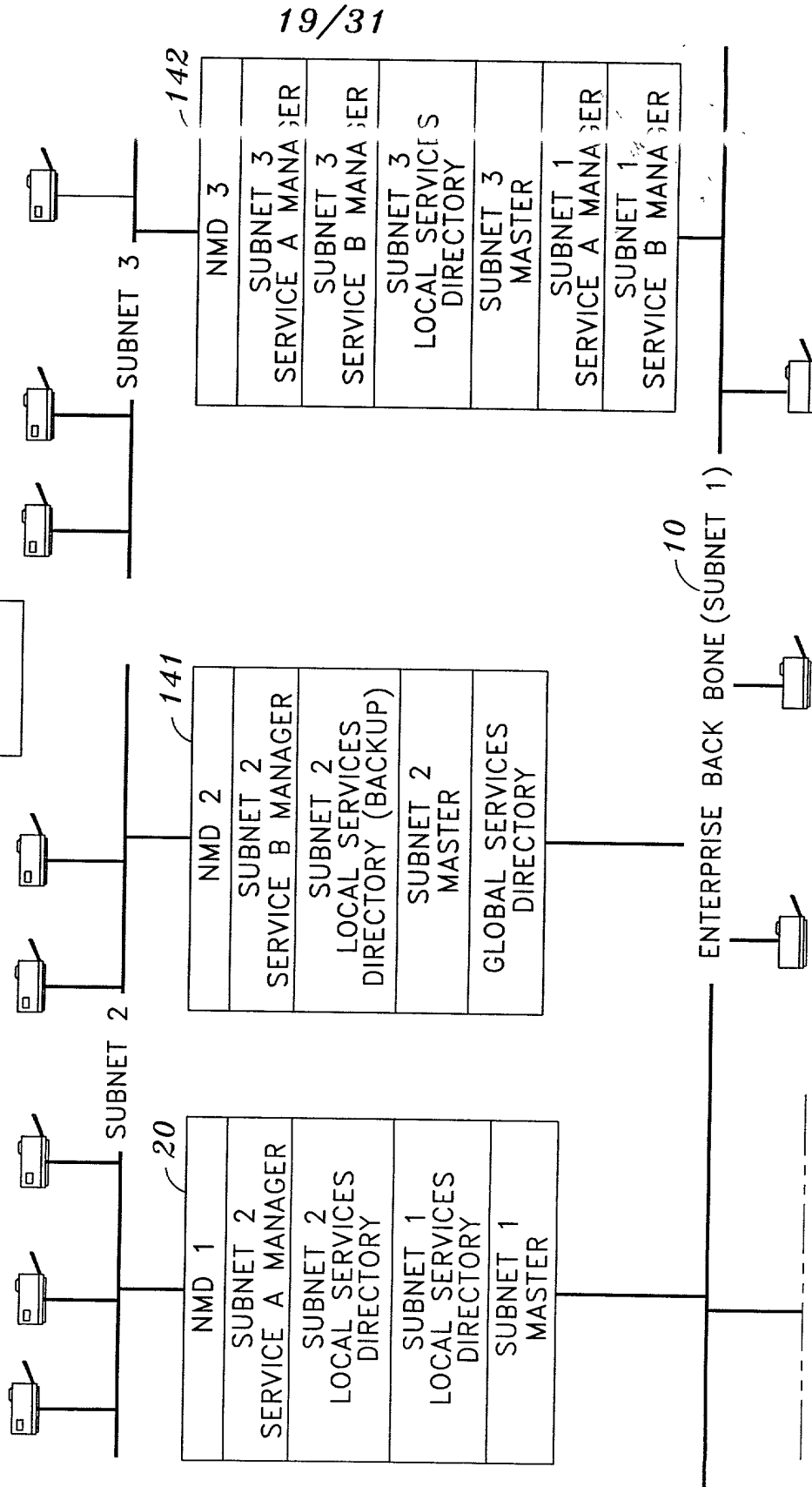
FIG. 16

FIG. 17

FIG. 17A

FIG. 17B

FIG. 17A



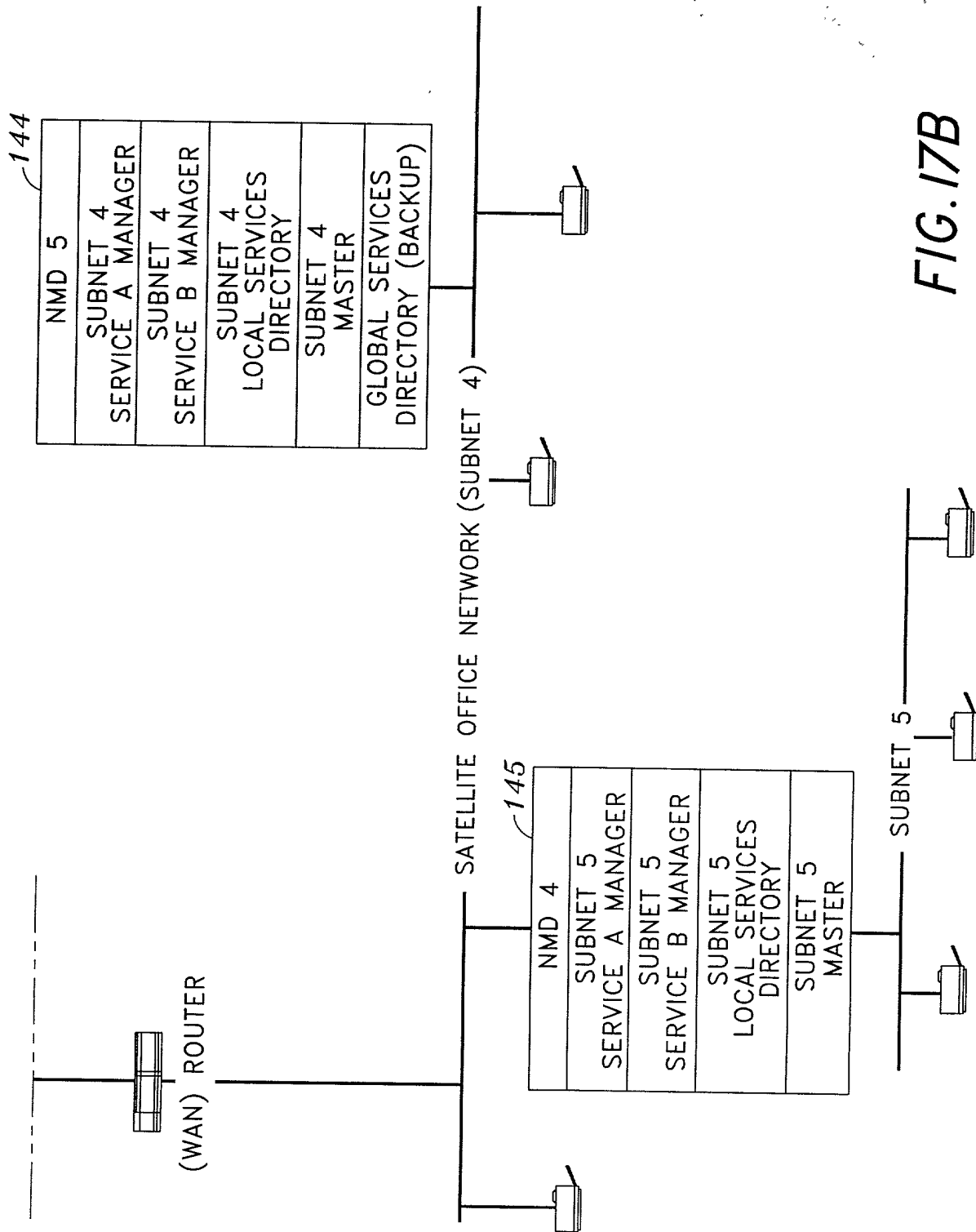


FIG. 17B

FIG. 18A

FIG. 18B

FIG. 18

FIG. 18A

| SUBNET | NMD 1 | | STATE |
|--------|---------------------------|--|--------------------|
| | COMPONENT | | |
| 1 | PRINTER QUEUE SERVICE | | NOT RUNNING |
| 1 | DISCOVERY SERVICE | | NOT RUNNING |
| 1 | LOCAL SERVICES DIRECTORY | | RUNNING |
| 1 | MASTER | | RUNNING |
| 2 | PRINTER QUEUE SERVICE | | RUNNING |
| 2 | DISCOVERY SERVICE | | NOT RUNNING |
| 2 | LOCAL SERVICES DIRECTORY | | RUNNING |
| 2 | MASTER | | NOT RUNNING |
| | GLOBAL SERVICES DIRECTORY | | NOT RUNNING/BACKUP |

2

| SUBNET | NMD 2 | | STATE |
|--------|---------------------------|--|--------------------|
| | COMPONENT | | |
| 1 | PRINTER QUEUE SERVICE | | NOT RUNNING |
| 1 | DISCOVERY SERVICE | | NOT RUNNING |
| 1 | LOCAL SERVICES DIRECTORY | | NOT RUNNING/BACKUP |
| 1 | MASTER | | NOT RUNNING |
| 2 | PRINTER QUEUE SERVICE | | NOT RUNNING |
| 2 | DISCOVERY SERVICE | | RUNNING |
| 2 | LOCAL SERVICES DIRECTORY | | BACKUP |
| 2 | MASTER | | RUNNING |
| | GLOBAL SERVICES DIRECTORY | | RUNNING |

1.1

FIG. 18B

| | | | | |
|--------|--|---------------------------|--|--------------------|
| | | NMD 3 | | |
| SUBNET | | COMPONENT | | STATE |
| 1 | | PRINTER QUEUE SERVICE | | RUNNING |
| 1 | | DISCOVERY SERVICE | | RUNNING |
| 1 | | LOCAL SERVICES DIRECTORY | | NOT RUNNING/BACKUP |
| 1 | | MASTER | | NOT RUNNING |
| 3 | | PRINTER QUEUE SERVICE | | RUNNING |
| 3 | | DISCOVERY SERVICE | | RUNNING |
| 3 | | LOCAL SERVICES DIRECTORY | | RUNNING |
| 3 | | MASTER | | RUNNING |
| | | GLOBAL SERVICES DIRECTORY | | NOT RUNNING/BACKUP |

1, 2

| | | | | |
|--------|--|---------------------------|--|---------|
| | | NMD 4 | | |
| SUBNET | | COMPONENT | | STATE |
| 4 | | PRINTER QUEUE SERVICE | | RUNNING |
| 4 | | DISCOVERY SERVICE | | RUNNING |
| 4 | | LOCAL SERVICES DIRECTORY | | RUNNING |
| 4 | | MASTER | | RUNNING |
| | | GLOBAL SERVICES DIRECTORY | | BACKUP |

1, 5

| | | | | |
|--------|--|---------------------------|--|--------------------|
| | | NMD 5 | | |
| SUBNET | | COMPONENT | | STATE |
| 4 | | PRINTER QUEUE SERVICE | | NOT RUNNING |
| 4 | | DISCOVERY SERVICE | | NOT RUNNING |
| 4 | | LOCAL SERVICES DIRECTORY | | NOT RUNNING/BACKUP |
| 4 | | MASTER | | NOT RUNNING |
| 5 | | PRINTER QUEUE SERVICE | | RUNNING |
| 5 | | DISCOVERY SERVICE | | RUNNING |
| 5 | | LOCAL SERVICES DIRECTORY | | RUNNING |
| 5 | | MASTER | | RUNNING |
| | | GLOBAL SERVICES DIRECTORY | | NOT RUNNING/BACKUP |

1, 4

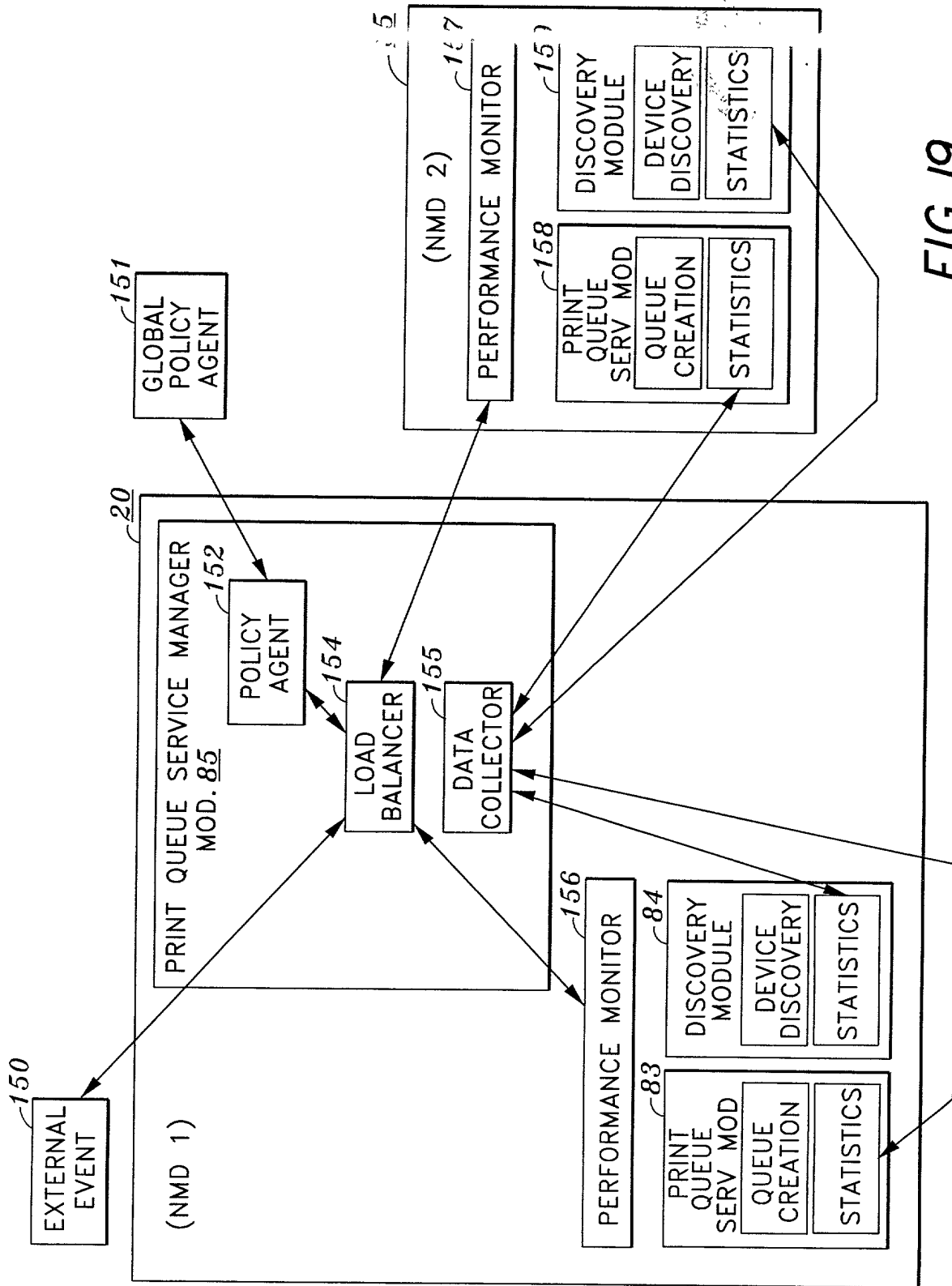


FIG. 19

FIG. 20A

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FIG. 20

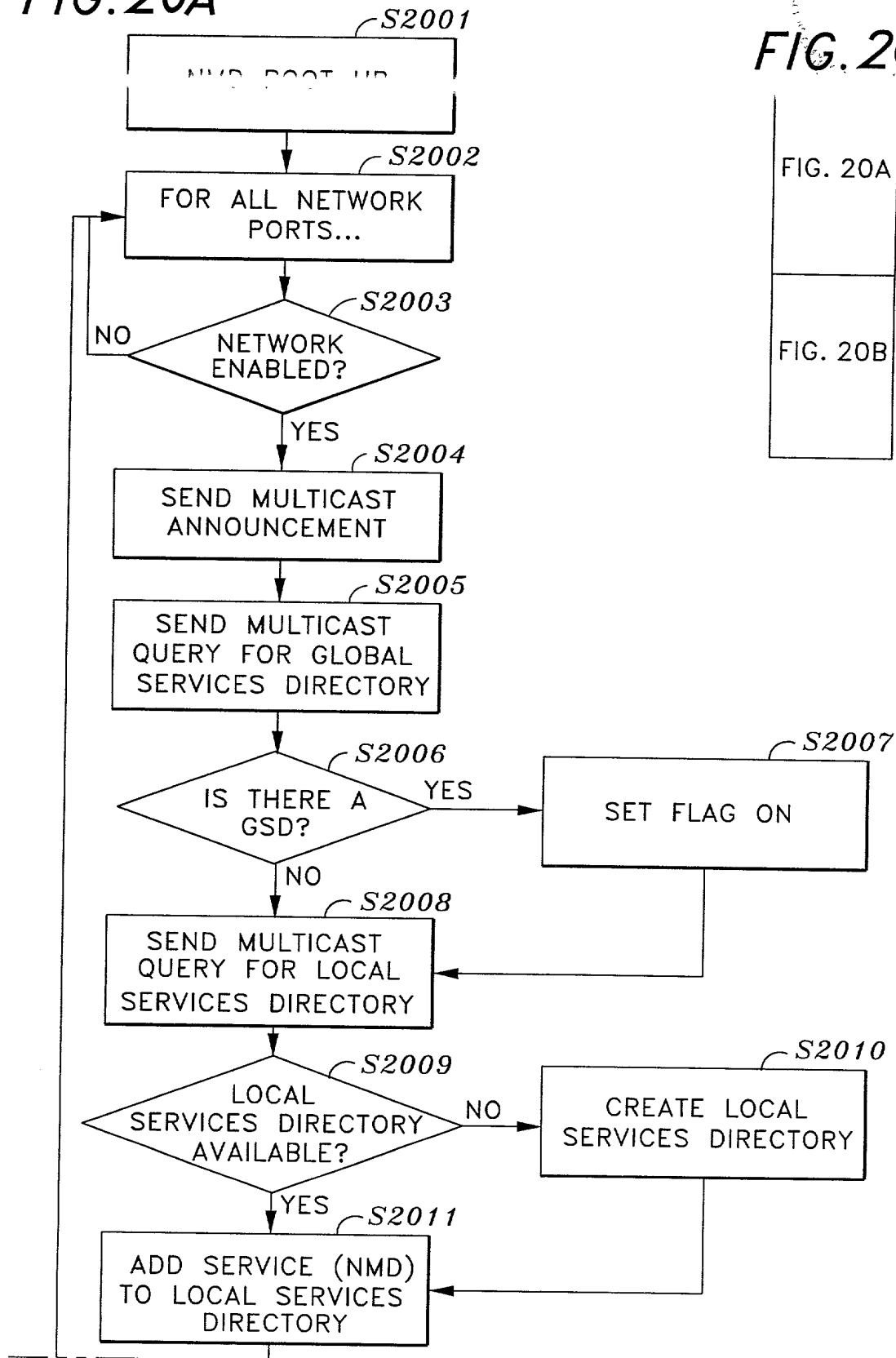


FIG. 20A

FIG. 20B

00895221 044400

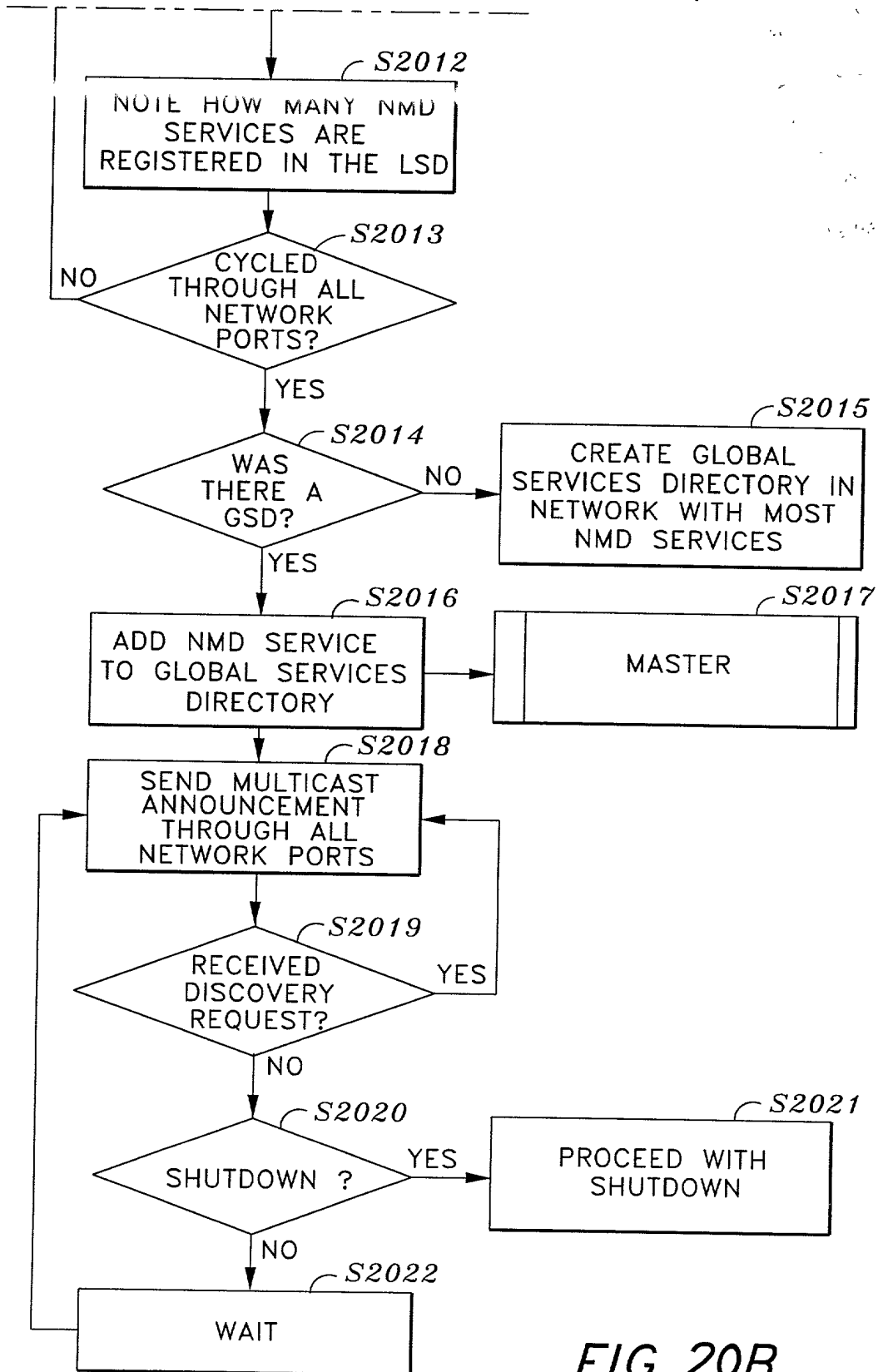


FIG. 20B

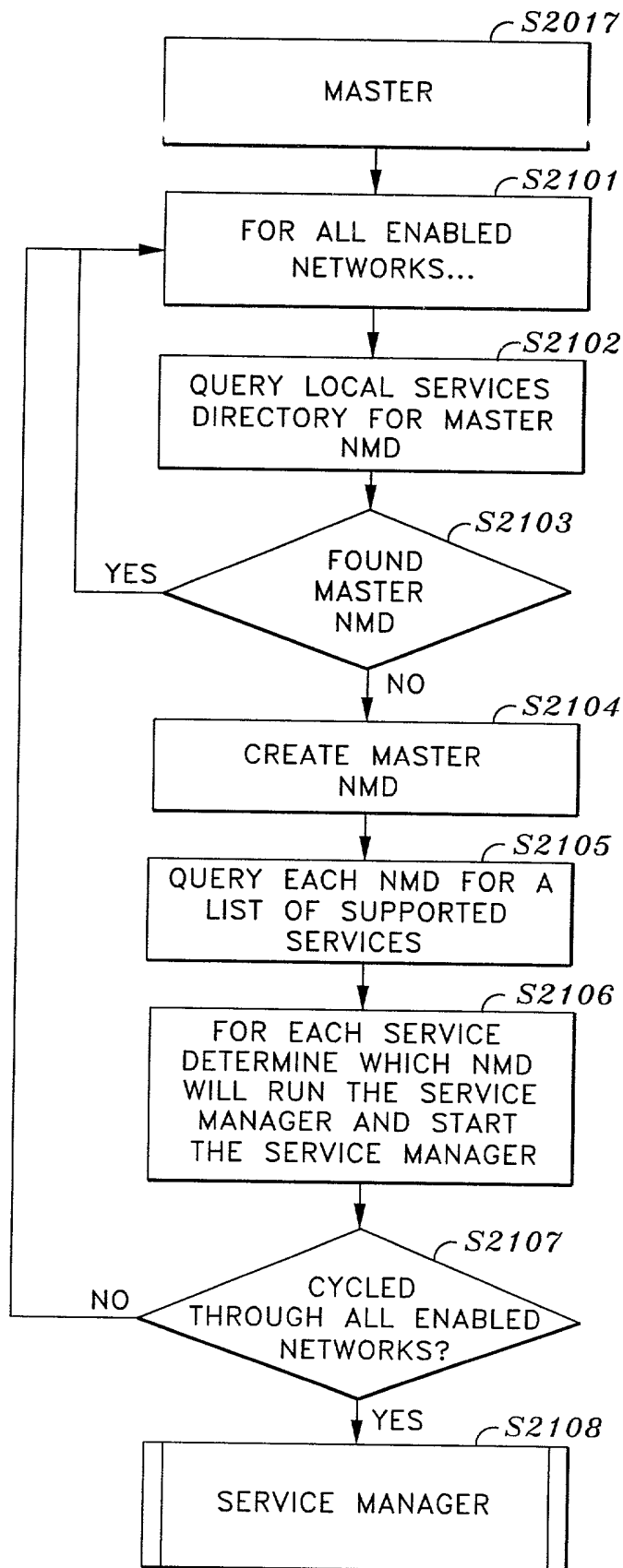


FIG. 21

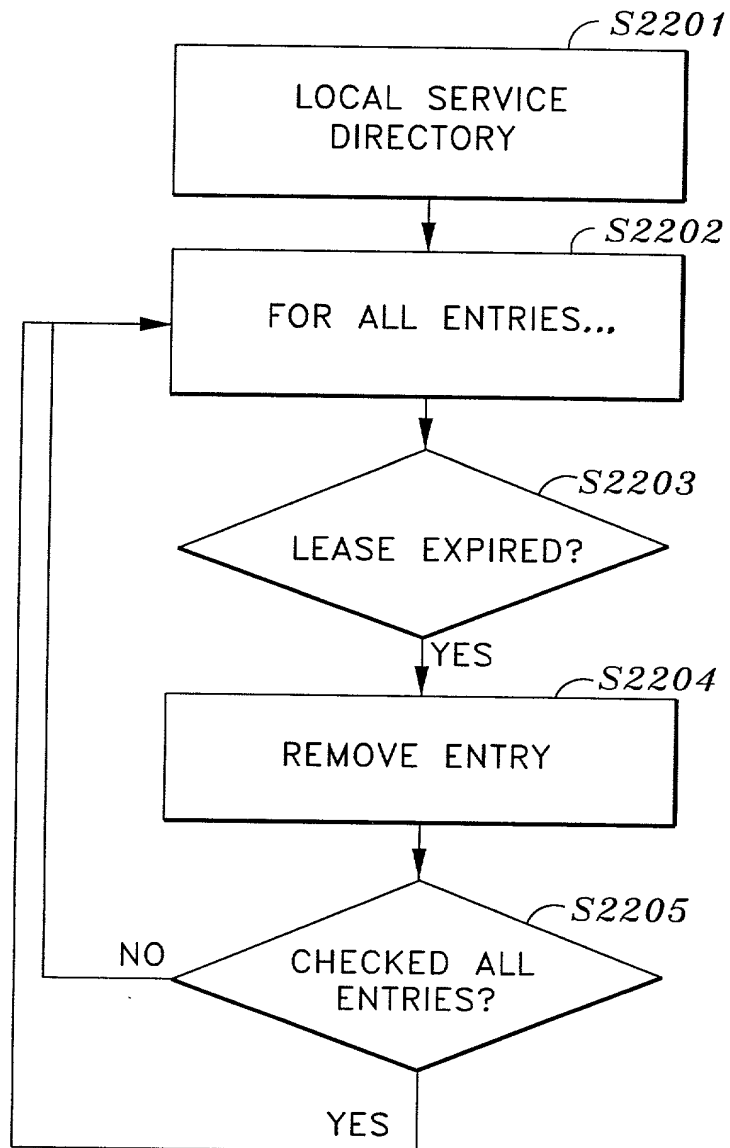


FIG. 22

FIG. 23A

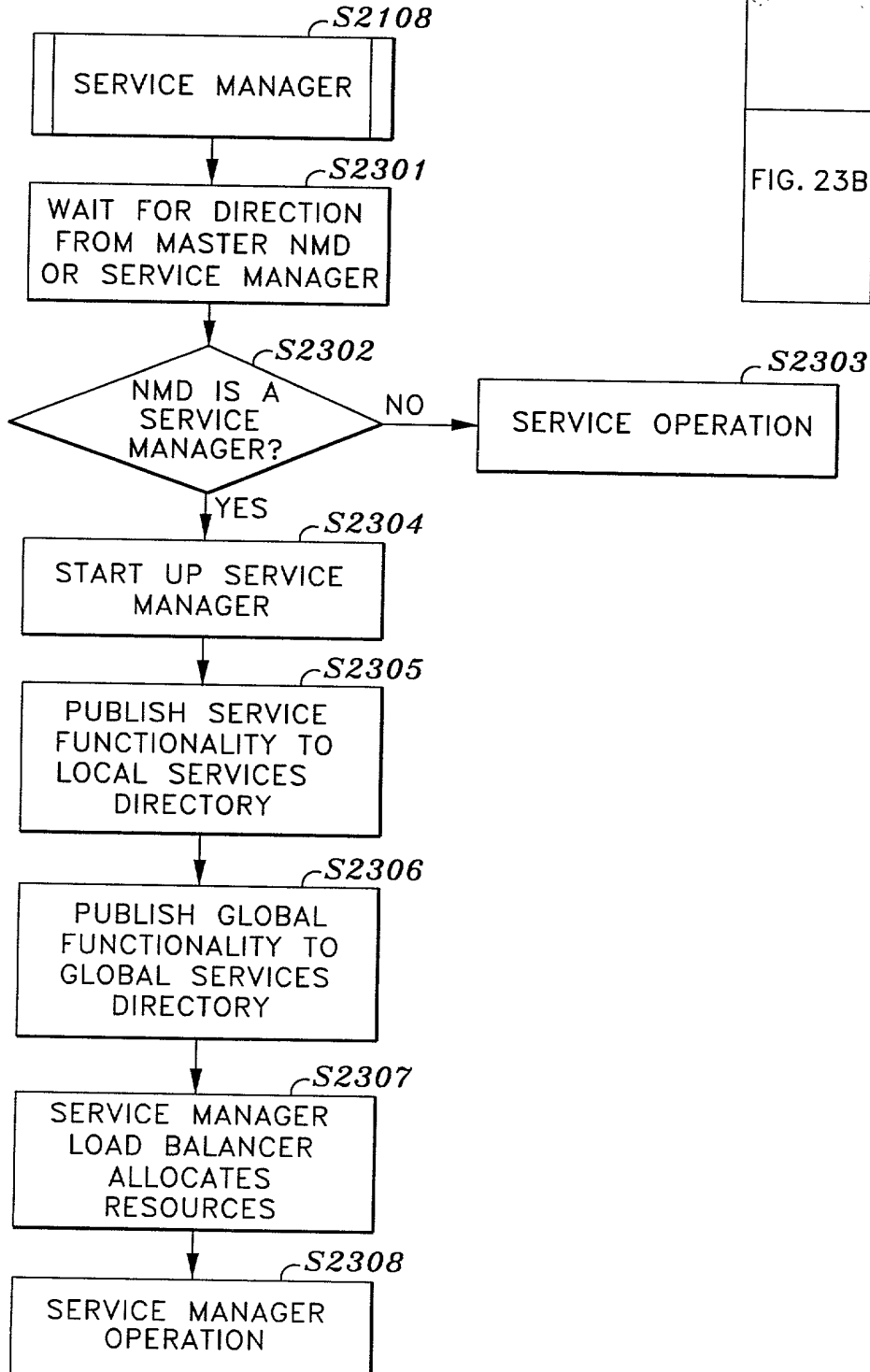


FIG. 23A

FIG. 23B

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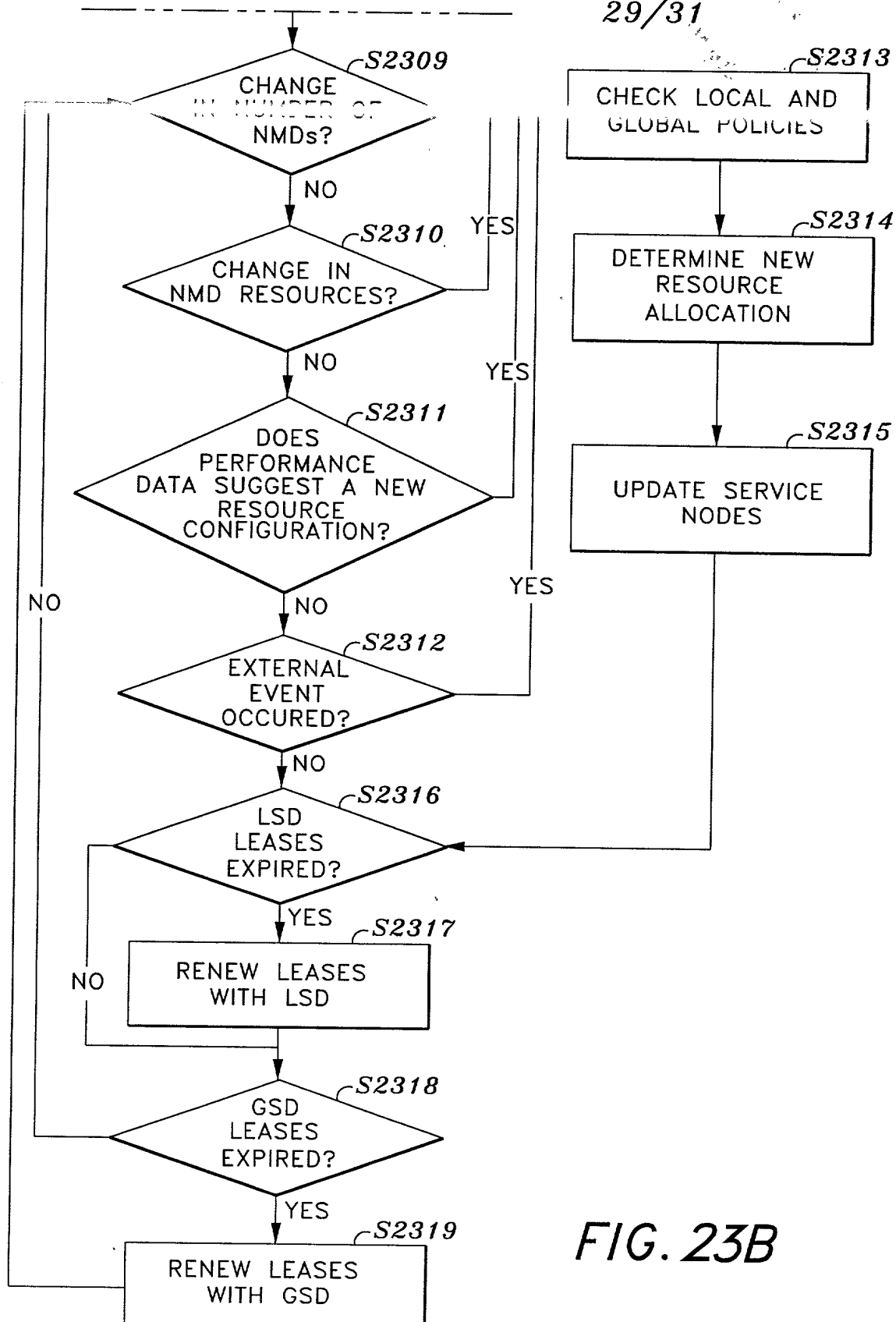
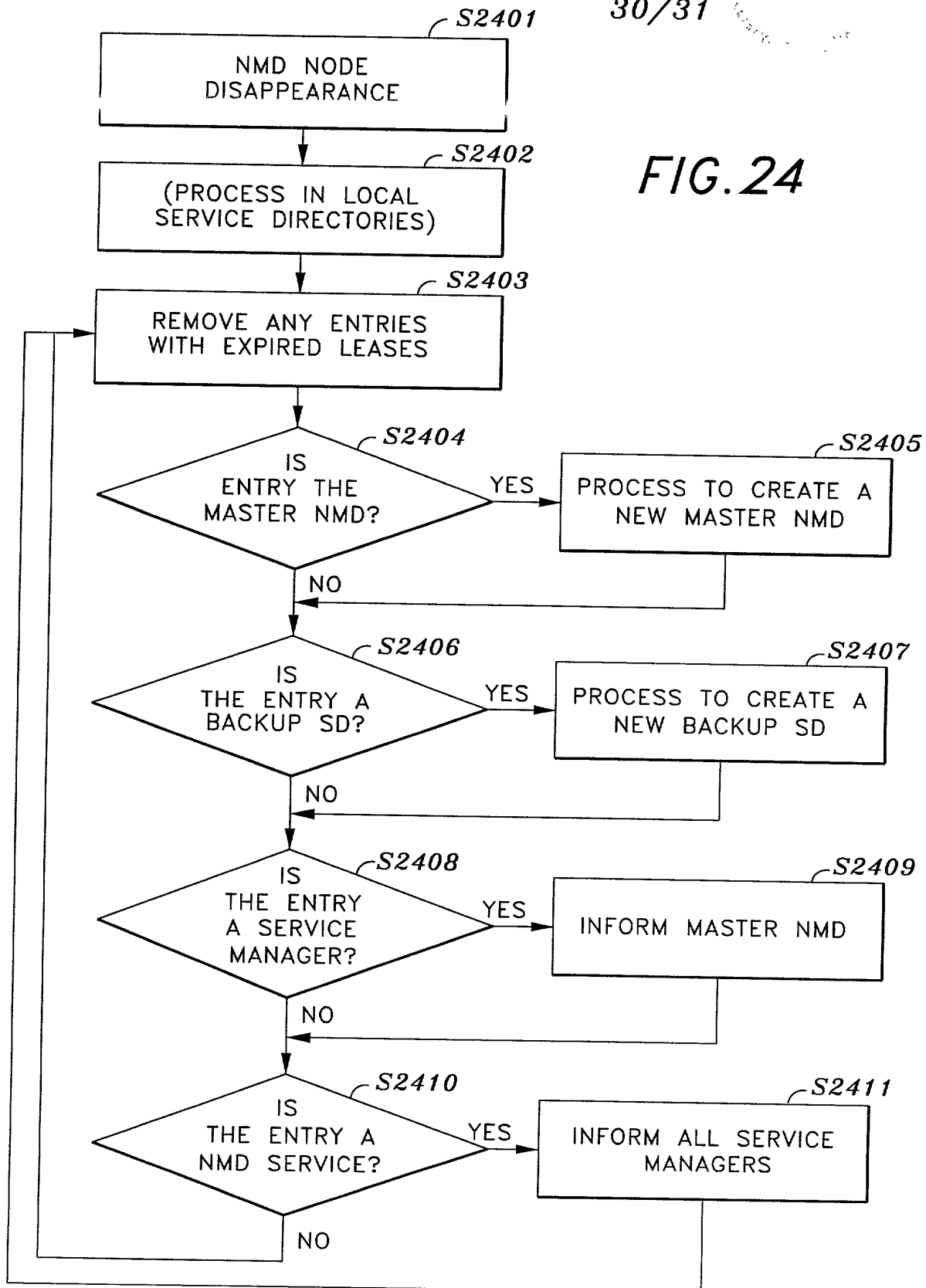


FIG. 23B

FIG. 24



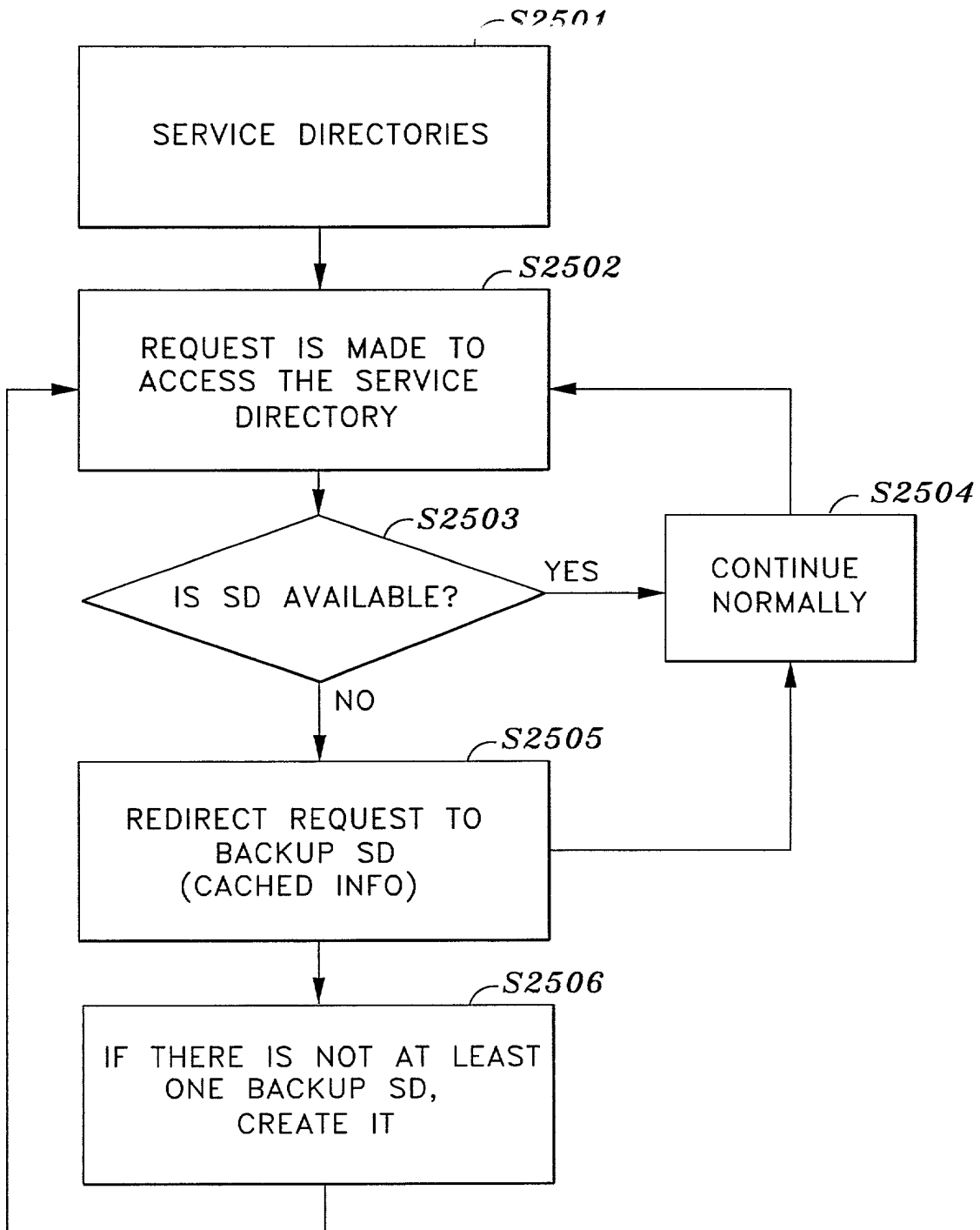


FIG. 25